(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



TO AND RECORDED THE CORRESPONDED TO THE PROPERTY OF THE PROPER

(43) International Publication Date 11 March 2004 (11.03.2004)

PCT

(10) International Publication Number WO 2004/019765 A3

(51) International Patent Classification7:

A61B 17/08

(21) International Application Number:

PCT/US2003/027296

(22) International Filing Date: 29 August 2003 (29.08.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

10/232,505

30 August 2002 (30.08.2002) U

10/366,818

13 February 2003 (13.02.2003) U

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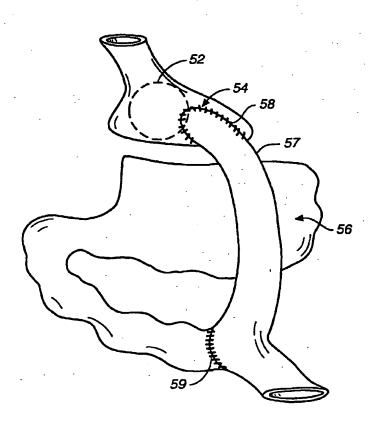
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- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,

[Continued on next page]

(54) Title: METHODS AND DEVICES FOR MAINTAINING A SPACE-OCCUPYING DEVICE WITHIN A STOMACH



(57) Abstract: Methods and devices for maintaining a space-occupying device in a fixed relationship relative to a patient's stomach by manipulation of the stomach. In one variation, two or more regions of the stomach wall are brought into approximation with one another and secured together in a manner that secures a space-occupying device (2) within the stomach of the patient. In another variation, two or more regions of the stomach wall are wrapped around a space-occupying device (2) to maintain the position of the space-occupying member (2) relative to the stomach wall. In another variation, a system having a space-occupying member(2) against the inner wall of the stomach are provided. In a further variation, a pouch is created within the stomach that receives and retains a space-occupying device (2).

WO 2004/019765 A3



SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- (88) Date of publication of the international search report: 29 July 2004

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/27296

		1.01.0003/2/250		
A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : A61B 17/08				
US CL	: 606/153			
According to International Patent Classification (IPC) or to both national classification and IPC				
B. FIEL	DS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols) U.S.: 606/153, 192; 600/207; 128/898				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet				
C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where ap		Relevant to claim No.	
Х	US 4,416,267 A (GARREN et al.) 22 November 198	3 (22.11.1983), See entire document.	1,3,4,8-12,14	
Ÿ			2,5,6,15	
X.	US 4,133,315 A (BERMAN et al.) 09 January 1979	(00 01 1070) See entire decument	101114	
~	OS 4,133,313 A (BERGALAIA et al.) 05 January 1979	(09.01.1979), See entire document.	1,9-11,14	
Y			15	
X US 5,129,915 A (CANTENYS) 14 July 1992 (14.07.		.1992), See entire document.	1,9,10	
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Date of the actual completion of the international search		Date of mailing of the international search report		
	(17.05.2004)	0		
	ailing address of the ISA/US	Authorized officer Sharon H. Greene for		
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	PCT/US03/27296
INTERNATIONAL SEARCH REPORT	
Continuation of Item 4 of the first sheet: The existing title is too long under PCT Rule 4.3.	
NEW TITLE	
Methods and Devices for Maintaining a Space-Occupying Device Within a Stomach	b
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Continuation of B. FIELDS SEARCHED Item 3: EAST BRS search terms: balloon, stomach, toroid, pouch

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